ABSTRACT

A soil sampling system that includes a drill rod, a core barrel for receiving a soil sample, an adapter coupling for coupling the core barrel to the drill rod, and a drive shoe attached to an end of the core barrel for penetrating the ground. In one embodiment, the core barrel includes two halves configured to be joined substantially along a plane to form a cylinder having a through bore with an inner and outer diameter. Each of the halves includes a pair of longitudinally extending edges, and the halves have a locking configuration to prevent lateral movement of the halves relative to one another with respect to an axis of the core barrel and to also preclude movement of the halves relative to one another in a direction perpendicular to the plane. Locking tongues extending along the length of each edge of the inner diameter on one half mate with respective notches extending along the length of each edge of the other half to prevent lateral movement. Locking tabs are used to preclude movement of the halves relative to one another in the direction perpendicular to the joining plane.